

Application No. 09/681,108

REMARKS

The Advisory Action of December 8, 2004 has been carefully considered. Reconsideration of this application, as amended, is respectfully requested. Claims 2-5, 7-9, 12-15, 17-19, and 21-26 are pending in this application. Of these, claims 2, 12, and 21 are independent claims. An Amendment mailed May 6, 2004 amended claims 2, 4-5, 7-9, 12, 14-15, and 17-19, canceled claims 1, 6, 10, 11, 16, and 20 and added claims 21-26.

1. Response To Final Office Action

The Advisory Action, at point 7, indicates that the amendments presented in an Amendment filed under 37 CFR 1.116, faxed November 3, 2004 will be entered only for the purpose of Appeal. Accordingly, this Amendment specifically sets forth herein all of the amendments to the specification and to the claims 2, 4, 12, 14, 21, 24, and 26 presented in response to the Final Office Action mailed September 9, 2004 in the Amendment filed under 37 CFR 1.116, faxed November 3, 2004. In support thereof, Applicant incorporates herein the remarks made on pages 12-17 in the Amendment filed under 37 CFR 1.116 on November 3, 2004.

2. Response to Advisory Action

The Advisory Action maintains the rejection of claims 2-3, 5, 7-9, 12-13, 15, 17-19, 21-22, 24 and 26 under 35 USC 103(a) as being unpatentable over Adams, entitled "Interactions Between Color Plane Interpolation and other Image Processing Functions in Electronic Photography", published in SPIE, Vol. 2416, pp. 144-151, 1995 (hereinafter referred to as "Adams"), in view of Kirk, U.S. Patent No. 4,803,548 (hereinafter referred to as Kirk).

In response thereto, this Amendment introduces amendments to the claims in addition to those set forth in the Amendment filed under 37 CFR 1.116, November 3, 2004. Specifically, Applicant amends in this Amendment independent claims 2, 12, and 21 to set forth that Applicant's method for CFA reconstruction reconstructs an image with color samples that are recorded in a spatially consistent manner, where each pixel records only one of a plurality of color channels, as illustrated in

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Applicant's Figures 1 and 2. No new matter is thus believed to be introduced by these amendments.

In view of these amendments introduced to the independent claims 2, 12, and 21 and Applicant's remarks set forth in section 3 of the Amendment filed under 37 CFR 1.116, November 3, 2004, Applicant respectfully submits that independent claims 2, 12, and 21 are patentably distinguishable over Adams taken singly or in combination with Kirk as their combination fails to disclose or suggest reconstructing a CFA image with a linear transformation that is used to estimate a color channel of a selected pixel of an image, where coefficients of the linear transformation are estimated with sampled color channel values of pixels that each record only one color channel at a spatially consistent resolution without interpolating non-sampled color channel values of the pixels.

Insofar as claims 3, 5, 7-9, 13, 15, 17-19, 22, 24 and 26 are concerned, these claims depend from one of now presumably allowable independent claims 1, 12, and 21 and are also believed to be in allowable condition. Further, the Advisory Action maintains the rejection of claims 4 and 14 under 35 USC 103(a) as being unpatentable over Adams, in view of Kirk and Weisstein, "CRC Concise Encyclopedia of Mathematics", pages 1045-1049, 1999 (hereinafter referred to as Weisstein). The claims 4 and 14 depend from now presumably allowable claims 2 and 12 and are therefore also believed to be in allowable condition for the reasons set forth above. Accordingly, this rejection under 35 USC 103(a) is now also believed to be overcome.

3. Fee Authorization

No additional fee is believed to be required for this amendment, however, the undersigned Xerox Corporation attorney hereby authorizes the charging of any necessary fees, other than the issue fee, to Xerox Corporation Deposit Account No. 24-0025.

4. Conclusion

In view of the foregoing remarks, reconsideration of this application and

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allowance thereof are earnestly solicited. In the event the Examiner considers a personal contact advantageous to the disposition of this case, the Examiner is hereby requested to call Attorney for Applicant(s), Thomas Zell.

Respectfully submitted,

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